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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/760,213	01/12/2001	Magnus Malmqvist	740073.404C1	2678
500	7590 12/01/2003	•	EXAMINER	
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC			CROSS, LATOYA I	
SUITE 6300 SEATTLE, WA 98104-7092			ART UNIT	PAPER NUMBER
			1743	

DATE MAILED: 12/01/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		T	
		Application No.	Applicant(s)
		09/760,213	MALMQVIST ET AL.
	Office Action Summary	Examin r	Art Unit
		LaToya I. Cross	1743
Period f	Th MAILING DATE of this communication app or Reply	ars on the cover	sheet with the correspond nce address
THE - Extra after - If th - If N - Fail - Any	HORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. He period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we lure to reply within the set or extended period for reply will, by statute, or reply received by the Office later than three months after the mailing need patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howev within the statutory minin will apply and will expire Si cause the application to l	er, may a reply be timely filed num of thirty (30) days will be considered timely. IX (6) MONTHS from the mailing date of this communication. Decome ABANDONED (35 U.S.C. § 133).
1)[\]	Responsive to communication(s) filed on <u>07 C</u>	October 2003 .	
2a)□		is action is non-fin	al.
3)□	Since this application is in condition for allowa closed in accordance with the practice under the condition is a condition of the condition of the condition is a condition of the condition of	nce except for for	mal matters, prosecution as to the merits is
•	tion of Claims		•
4)⊠	Claim(s) <u>1-28,43 and 44</u> is/are pending in the	•	
	4a) Of the above claim(s) is/are withdraw	vn from considera	tion.
5)∐	· · · ——		
6)⊠	•		·
7)凵	Claim(s) is/are objected to.		
∐(8	Claim(s) are subject to restriction and/or tion Papers	r election requirem	nent.
	•		·
•	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) accep	•	d to by the Evenines
لــا(١٥	Applicant may not request that any objection to the	•	•
11)	The proposed drawing correction filed on		• , ,
• • • • • • • • • • • • • • • • • • • •	If approved, corrected drawings are required in rep		
12)	The oath or declaration is objected to by the Exa	•	,
•	under 35 U.S.C. §§ 119 and 120		
	Acknowledgment is made of a claim for foreign	priority under 35	U.S.C. & 119(a)-(d) or (f)
	□ All b)□ Some * c)□ None of:	priority under 50	e.e. 3 110(a) (a) a. (i).
,	1. Certified copies of the priority documents	s have been receiv	ved
	2. Certified copies of the priority documents		
	Copies of the certified copies of the prior application from the International Bur	ity documents hav	re been received in this National Stage
*	See the attached detailed Office action for a list of		
14) 🗌 .	Acknowledgment is made of a claim for domestic	c priority under 35	U.S.C. § 119(e) (to a provisional application).
	a) \square The translation of the foreign language pro- Acknowledgment is made of a claim for domestion		•
Attachmer —	nt(s)		
2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>4</u> .	5) 🔲 1	nterview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152) Other:

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DETAILED ACTION

1. Applicant's election without traverse of claims 1-30, 43 and 44 in Paper No. 8 is acknowledged. The cancellation of claims 29-42 is also acknowledged.

Drawings

2. This application, filed under former 37 CFR 1.60, lacks formal drawings. The informal drawings filed in this application are acceptable for examination purposes. When the application is allowed, applicant will be required to submit new formal drawings. In unusual circumstances, the formal drawings from the abandoned parent application may be transferred by the grant of a petition under 37 CFR 1.182.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 1, 2, 4, 6, 9, 10, 17-23 and 25-28 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 97/01087 to Oroszlan et al.

Oroszlan et al teach a method for analyzing an analyte of a fluid sample whereby a flow cell is provide which allows the sample to be kept away from certain regions of the flow channel without the need for structural partitions that divide the flow channel into chambers.

Specifically, a laminar flow of a first fluid (P1, P2, P3 –sample fluids) flows adjacent to a flow of second fluid (R1, R2 – reference fluids), shown in figure 9. The sample fluid is a sensitizing

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fluid and the reference fluid is non-sensitizing. This configuration allows the sensitizing sample fluid to be sandwiched between non-sensitizing reference fluid, as recited in claim 6. The flow rates of the sample and reference fluids can be regulated individually, as recited in claim 1 and 23 (page 19, 2nd paragraph). According to figure 10, reference fluid flows in the flow channel toward the sample flow and meets the sample fluid at an interface (the mouth of discharge channel 41). Under laminar flow conditions, the individual stream do not mix allowing a plurality of samples to be tested simultaneously, as recited in claim 2 (pp. 18 – 20). The flow rate of the sample is adjusted by altering the thickness of the flowing layer. With respect to claim 4 and 22, Oroszlan et al teach more than three samples may flow adjacent one another through the flow channel (page 19). With respect to claims 9 and 10, Oroszlan et al teach that the flow cell may be used as an optical waveguide having a detection layer in which selectively sensitive recognition elements for analytes are immobilized (page 6, 1st paragraph; page 21, last paragraph). With respect to claims 18, 21 and 25-28, discrete sensing areas are shown in figure 12 – grating (73) and detection layer (8a).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claims 3, 5, 7, 8, 12-16, 18, 19, 24, 28, 43 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oroszlan et al.

Oroszlan et al do not specifically teach replacing the first sensitizing fluid with a fluid that does not interact with a fluid the sensing surface, replacing the second fluid with a sensitizing fluid different from the first sensitizing fluid, or applying the second sensitizing fluid traversely to the direction of the first sensitizing fluid. However, the reference does teach that multiple fluids can be used. It would have been obvious to use two sensitizing fluids different from one another to allow detection of different analytes in different samples where desired. With respect to the direction of fluid, Oroszlan et al teach the reference fluid flow traversing the sample fluid flow. It would have been obvious to have a first sensitizing fluid to traverse a second sensitizing fluid to optimize the flow of fluid throughout the cell.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to LaToya I. Cross whose telephone number is 703-305-7360.

The examiner can normally be reached on Monday-Friday 8:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on 703-308-4037. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

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November 30, 2003

Supervisory Patent Examiner
Technology Center 1700